

NC2-631 / NC2-636 / NC2-638

6" Sapphire II LED Reflectors

Source: 16W to 60W LED
900lm to 4500lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

The Sapphire II COB Series is an architectural grade LED high lumen downlight. The Sapphire II uses the latest COB technology by Cree®. The COB allows for better optic control offering 3 beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications. The reflectors have been designed for the high efficiency (LPW) while providing low aperture brightness. The Sapphire II COB Series is proudly assembled in the USA.

FEATURES

- Cree® COB technology
- Shatter resistant lens
- Specifiable beam spreads
- 6" deep cone reflectors, wall wash and deco glass
- 900lm, 1500lm, 2500lm, 3500lm, and 4500lm LED packages
- 2700K, 3000K, 3500K and 4000K @ 90+ CRI
- 5-year limited warranty
- cULus listed for wet locations
- ENERGY STAR certified

ELECTRICAL

Lumens / Wattage:

L09 = 900lm / 16W; **L15** = 1500lm / 18W; **L25** = 2500lm / 27W;

L35 = 3500lm / 46W; **L45** = 4500lm / 60W

Color Temperature: 2700K, 3000K, 3500K, 4000K

Color Rendering Index: 90+CRI

Beam Spread: (S) 45° Spot, (M) 64° Narrow Flood, (F) 79° Flood

Operating Temperature: 0°C to 45°C

Lifetime: 60,000 hours @ L70

COMPATIBLE FRAME-INS

Reflector is only compatible with respective Sapphire II series frames manufactured by Nora Lighting.

CATALOG NO. DESCRIPTION

NCAH2-630	6" Universal New Construction Frame-In
NCHR2-634	6" Remodel Frame-In

DECO GLASS OPTIONS

NC2-638 is compatible with up to two decorative glass options, sold separately. Each glass includes mounting hardware (NRA-203).

NTG-6B/120 6" Tempered Blue Glass with 4-3/4" Open Center

NTG-6B/80 6" Tempered Blue Glass with 3-1/8" Open Center

NTG-6CF 6" Tempered Clear Glass with Frosted Center

NTG-6FC 6" Tempered Frosted Glass with Clear Center

NTG-6HC 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

SPECIFICATION

Reflector: Deep cone self flanged reflector spun from 0.050" high grade aluminum provides even illumination and visual comfort. The deep cone reflectors provide 55+ degree cut-off. NC2-638 includes 3 studs mounted in the flange for attaching decorative glass. Decorative glass will reduce the amount of usable light by 10 to 30%, depending on the selected glass.

Reflector Assembly: The reflector assembly includes the LED optical package and heat sink mounted on top. Reflector assembly easily wires to dedicated frame with lockable quick connect.

Emergency: NC2-631 is compatible with integral emergency test switch, must specify.

LABELS AND LISTINGS

- cULus Listed for Wet Locations when used with compatible frame-in
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- FCC Compliant



PRODUCT IMAGES & DIMENSIONS



6" Sapphire II LED Reflectors - Dedicated Frame-In Required

Reflector Type	Lumens / Wattage	Color Temp.	Beam Spread	Reflector / Flange Finish	Optional Emergency
NC2-631 = Open Reflector	L09 = 900lm / 16W	27 = 2700K	S = Spot	BSF = Black / Self Flanged	EMI = Integral emergency test switch (Compatible with NC2-631 only, must specify on frame-in)
NC2-636 = Wall Wash ¹	L15 = 1500lm / 18W	30 = 3000K	M = Narrow Flood	BWSF = Black / White Flange	
NC2-638 = Deco Glass* ¹	L25 = 2500lm / 27W	35 = 3500K	F = Flood	CSF = Specular Clear / Self Flanged [†]	
¹ Not compatible with 1500lm or 4500lm	L35 = 3500lm / 46W	40 = 4000K		DBSF = Clear Diffused / Black Flange	
	L45 = 4500lm / 60W			DSF = Clear Diffused / Self Flanged	
				DWSF = Clear Diffused / White Flange	
				HBSF = Haze / Black Flange	
				HSF = Haze / Self Flanged	
				HWSF = Haze / White Flange	
				WSF = White / Self Flanged	

* Deco Glass Options:

NTG-6B/120	Tempered Blue Glass with 4-3/4" Open Center
NTG-6B/80	Tempered Blue Glass with 3-1/8" Open Center
NTG-6CF	Tempered Clear Glass with Frosted Center
NTG-6FC	Tempered Clear Glass with Clear Center
NTG-6HC	Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

Example: **NC2-631L2530WSF** = 6" Sapphire II Open Reflector, 2500lm / 27W LED, 3000K, Spot Beam Spread, White / Self Flange Finish

NCAH2-630

6" Sapphire II New Construction Frame-In

Source: 16W to 60W LED
900lm to 4500lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

The Sapphire II COB Series is an architectural grade LED high lumen downlight. The Sapphire II uses the latest COB technology by Cree®. The COB allows for better optic control offering 3 beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications.

CONSTRUCTION

Plaster Frame: Architectural quality 0.050" galvanized steel ring riveted to 0.064" steel junction box and driver tray. Plaster frame opening includes (3) "butterfly" spring clips to hold reflector assembly in place.

Mounting: Frame-in includes two adjustable bar hangers and universal brackets that accept flat bar hangers, C-Channel (ordered separately) or rigid 1/2" conduit. Adjustable hanger bars with captive nails, alignment foot, T-Bar slot are included on frame. Frame-in includes an adjustable deep ceiling collar that accommodates ceiling thickness from 1/2" to 2-1/2".

Minimum Clearances: Frames require a minimum of 3" from thermal insulation and 1/2" from adjacent building component.

Junction Box: Plaster frame integrated 29 cubic inch 0.064" thick galvanized steel, with seven 1/2" knockouts, four pryouts, and snap on cover. Electrical connections are made through a single junction box door. Green wire provided for installations with ground wire fed through PVC pipe conduit. Junction box connects to reflector assembly with lockable quick connect.

Thermal Protector: LE3: External thermal device is located on the junction box; LE6: Thermally protected driver

Driver: Isolated driver separates the primary side from the secondary side.

ELECTRICAL

Input Voltage: 120V or 120-277V

Operating Temperature: 0°C to 45°C

Lumens / Wattage: L09 = 900lm / 16W; L15 = 1500lm / 18W; L25 = 2500lm / 27W; L35 = 3500lm / 46W; L45 = 4500lm / 60W

Dimming: Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

COMPATIBLE REFLECTORS

CATALOG NO.	DESCRIPTION
NC2-631	6" Open Reflector
NC2-636	6" Wall Wash Reflector
NC2-638	6" Decorative Glass Reflector

Emergency LED Driver

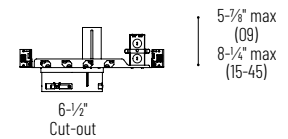
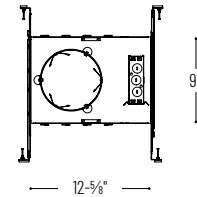
- Up to 7W emergency illumination with LEDs.
- Illumination Time: 90min
- Voltage: 120-277VAC, 50/60Hz
- Output Voltage: 10-60 VDC
- Available with remote or integral test switch, must specify

LABELS AND LISTINGS

- cULus Listed for Damp Locations (Wet Locations when used with compatible reflector)
- [5-Year Limited Warranty](#)
- RoHS Compliant
- FCC Compliant
- Emergency LED Driver meets Title 20 CEC efficiency standards



PRODUCT IMAGES AND DIMENSIONS



6" Sapphire II New Construction Frame-In - Compatible with Sapphire II Reflectors

Lumens / Wattage	Driver	Optional Emergency
NCAH2-630/09 = 900lm / 16W	LE3 = 120V Input; Triac/ELV0-10V dimming	EM = Emergency Pack w/ Remote Test Switch
NCAH2-630/15 = 1500lm / 18W	LE6 = 120-277V Input; 0-10V dimming	EMI = Emergency Pack w/ Integral Test Switch, must specify on reflector
NCAH2-630/25 = 2500lm / 27W		
NCAH2-630/35 = 3500lm / 46W		
NCAH2-630/45 = 4500lm / 60W		

Example: **NCAH2-630/25LE6EM** = 6" Sapphire II Universal New Construction Frame-In, 2500lm / 27W, 120-277V Input, Emergency with Remote Test Switch

NCHR2-634

6" Sapphire II Remodel Frame-In

Source: 16W to 60W LED
900lm to 4500lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

The Sapphire II COB Series is an architectural grade LED high lumen downlight. The Sapphire II uses the latest COB technology by Cree®. The COB allows for better optic control offering 3 beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications.

CONSTRUCTION

Plaster Frame: Architectural quality 0.050" galvanized steel ring riveted to 0.064" steel junction box and driver tray. Remodel frame opening includes (3) "butterfly" spring clips to hold reflector assembly in place.

Mounting: Designed for installation in existing ceilings. Three high tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience. Remodel frame-in accommodates ceiling thickness from 1/2" to 1-1/4".

Minimum Clearances: Frames require a minimum of 3" from thermal insulation and 1/2" from adjacent building component.

Junction Box: Plaster frame integrated 29 cubic inch 0.064" thick galvanized steel, with seven 1/2" knockouts, four pryouts, and snap on cover. Electrical connections are made through a single junction box door. Green wire provided for installations with ground wire fed through PVC pipe conduit. Junction box connects to reflector assembly with lockable quick connect.

Thermal Protector: LE3: External thermal device is located on the junction box; LE6: Thermally protected driver

Driver: Isolated driver separates the primary side from the secondary side.

ELECTRICAL

Input Voltage: 120V or 120-277V

Lumens / Wattage: L09 = 900lm / 16W; L15 = 1500lm / 18W; L25 = 2500lm / 27W; L35 = 3500lm / 46W; L45 = 4500lm / 60W

Operating Temperature: 0°C to 45°C

Dimming: Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

COMPATIBLE REFLECTORS

CATALOG NO.	DESCRIPTION
NC2-631	6" Open Reflector
NC2-636	6" Wall Wash Reflector
NC2-638	6" Decorative Glass Reflector

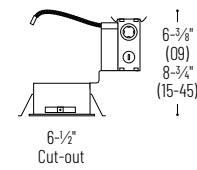
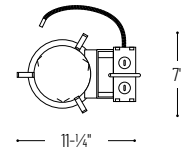
Emergency: Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.

LABELS AND LISTINGS

- cULus Listed for Damp Locations (Wet Locations when used with compatible reflector)
- [5-Year Limited Warranty](#)
- RoHS Compliant
- FCC Compliant
- Emergency LED Driver meets Title 20 CEC efficiency standards



PRODUCT IMAGES AND DIMENSIONS



6" Sapphire II Remodel Frame-In - Compatible with Sapphire II Reflectors

Lumens / Wattage	Driver
NCHR2-634/09 = 900lm / 16W	LE3 = 120V Input; Triac/ELV0-10V dimming
NCHR2-634/15 = 1500lm / 18W	LE6 = 120-277V Input; 0-10V dimming
NCHR2-634/25 = 2500lm / 27W	
NCHR2-634/35 = 3500lm / 46W	
NCHR2-634/45 = 4500lm / 60W	

Optional Accessories

Description
NEPK-07LEDUNV = Remote Emergency Battery w/Test Switch

Example: **NCHR2-634/15LE6** = 6" Sapphire II LED Remodel Frame-In, 1500lm / 18W, 120-277V Input

PHOTOMETRICS

6" Sapphire II Series
900lm

Type

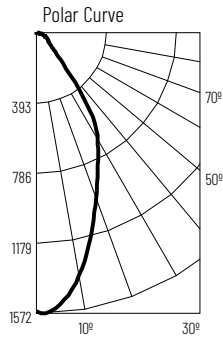
Project

Catalog No.

Notes

Test Information

Test Number: NTR1335
Part Number: NC2-631L0940SWSF
Part Number: 35° Spot
Lumens: 1113lm
Wattage: 14.89W
Efficacy: 75lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.56
Spacing Criteria (90°-270°): 0.54



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	95.2fc	2'-7"
6'	42.3fc	3'-11"
8'	23.8fc	5'-2"
10'	15.2fc	6'-6"
12'	10.6fc	7'-10"

Zonal Lumen Summary

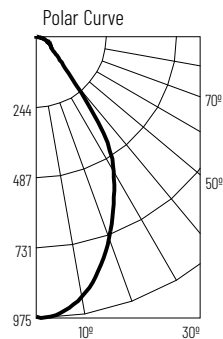
Zone	Lumens	% Luminaire
0-30	637	57.2
0-40	869	78.1
0-60	1019	91.6
0-90	1106	99.4
90-180	7	0.6
0-180	1113	100

Candela Table

Vertical Angles	Candela
0	1522
5	1421
15	868
25	595
35	401
45	114

Test Information

Test Number: NTR1321
Part Number: NC2-631L0940MWSF
Part Number: 65° Narrow Flood
Lumens: 1114lm
Wattage: 14.86W
Efficacy: 75lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.92
Spacing Criteria (90°-270°): 0.92



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	60.7fc	5'-1"
6'	27fc	7'-8"
8'	15.2fc	10'-2"
10'	9.7fc	12'-10"
12'	6.8fc	15'-4"

Zonal Lumen Summary

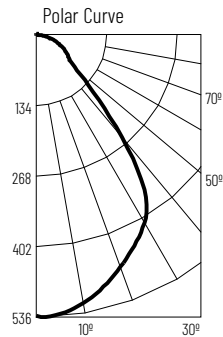
Zone	Lumens	% Luminaire
0-30	607	54.5
0-40	855	76.8
0-60	1019	91.4
0-90	1108	99.4
90-180	7	0.6
0-180	1114	100

Candela Table

Vertical Angles	Candela
0	972
5	955
15	825
25	627
35	426
45	128

Test Information

Test Number: NTR1321
Part Number: NC2-631L0940FWSF
Part Number: 79° Flood
Lumens: 898lm
Wattage: 15.02W
Efficacy: 60lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	33.3fc	6'-6"
6'	14.8fc	9'-10"
8'	8.3fc	13'-1"
10'	5.3fc	16'-4"
12'	3.7fc	19'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	390	43.4
0-40	605	67.4
0-60	795	88.5
0-90	891	99.3
90-180	7	0.7
0-180	898	100

Candela Table

Vertical Angles	Candela
0	533
5	527
15	491
25	436
35	354
45	154

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

PHOTOMETRICS

6" Sapphire II Series
1500lm

Type

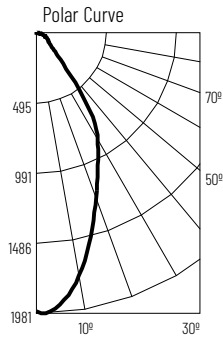
Project

Catalog No.

Notes

Test Information

Test Number: NTR1335
Part Number: NC2-631L1540SWSF
Part Number: 42° Spot
Lumens: 1561lm
Wattage: 16.78W
Efficacy: 93lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.64
Spacing Criteria (90°-270°): 0.66



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	54.1fc	4'-6"
9'	24fc	6'-10"
12'	13.5fc	9'-1"
15'	8.7fc	11'-5"
18'	6fc	13'-7"

Zonal Lumen Summary

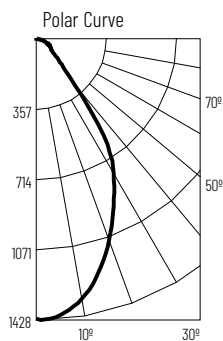
Zone	Lumens	% Luminaire
0-30	904	57.9
0-40	1213	77.7
0-60	1435	91.9
0-90	1550	99.3
90-180	11	0.7
0-180	1561	100

Candela Table

Vertical Angles	Candela
0	1946
5	1844
15	1234
25	832
35	504
45	159

Test Information

Test Number: NTR1335
Part Number: NC2-631L1540MWSF
Part Number: 63° Narrow Flood
Lumens: 1566lm
Wattage: 16.92W
Efficacy: 93lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.9
Spacing Criteria (90°-270°): 0.9



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	39.4fc	7'-5"
9'	17.5fc	11'-1"
12'	9.9fc	14'-8"
15'	6.3fc	18'-5"
18'	4.4fc	22'-1"

Zonal Lumen Summary

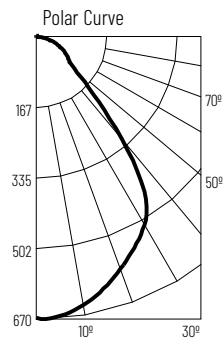
Zone	Lumens	% Luminaire
0-30	877	56
0-40	1216	77.6
0-60	1439	91.9
0-90	1556	99.4
90-180	10	0.6
0-180	1566	100

Candela Table

Vertical Angles	Candela
0	1420
5	1402
15	1206
25	895
35	572
45	176

Test Information

Test Number: NTR11321
Part Number: NC2-631L1540FWSF
Part Number: 79° Flood
Lumens: 1132lm
Wattage: 15.04W
Efficacy: 75lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	18.5fc	9'-11"
9'	8.2fc	14'-10"
12'	4.6fc	19'-8"
15'	3fc	24'-7"
18'	2.1fc	29'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	490	43.3
0-40	756	66.7
0-60	1005	88.8
0-90	1124	99.3
90-180	8	0.7
0-180	1132	100

Candela Table

Vertical Angles	Candela
0	667
5	662
15	618
25	551
35	436
45	202

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

PHOTOMETRICS

6" Sapphire II Series
2500lm

Type

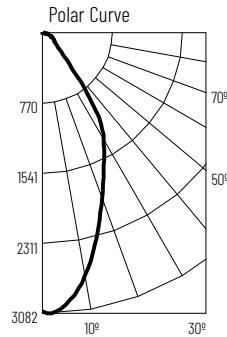
Project

Catalog No.

Notes

Test Information

Test Number: NTR1335
Part Number: NC2-631L2540SWSF
Part Number: 40° Spot
Lumens: 2367lm
Wattage: 28.8W
Efficacy: 82lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.62



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	84.5fc	4'-5"
9'	37.6fc	6'-7"
12'	21.1fc	8'-8"
15'	13.5fc	10'-11"
18'	9.4fc	13'-1"

Zonal Lumen Summary

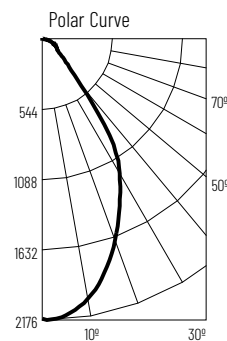
Zone	Lumens	% Luminaire
0-30	1371	57.9
0-40	1860	78.6
0-60	2170	91.7
0-90	2350	99.3
90-180	17	0.7
0-180	2367	100

Candela Table

Vertical Angles	Candela
0	3043
5	2842
15	1879
25	1271
35	836
45	233

Test Information

Test Number: NTR1335
Part Number: NC2-631L2540MWSF
Part Number: 63° Narrow Flood
Lumens: 2408lm
Wattage: 29.04W
Efficacy: 83lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.9
Spacing Criteria (90°-270°): 0.9



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	60.4fc	7'-5"
9'	26.8fc	11'
12'	15.1fc	14'-8"
15'	9.7fc	18'-5"
18'	6.7fc	22'-1"

Zonal Lumen Summary

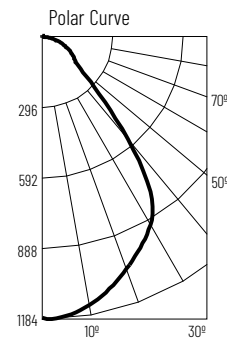
Zone	Lumens	% Luminaire
0-30	1345	55.8
0-40	1867	77.5
0-60	2207	91.7
0-90	2390	99.3
90-180	18	0.7
0-180	2408	100

Candela Table

Vertical Angles	Candela
0	2173
5	2137
15	1837
25	1371
35	889
45	269

Test Information

Test Number: NTR1321
Part Number: NC2-631L2540FWSF
Part Number: 79° Flood
Lumens: 2004lm
Wattage: 29.24W
Efficacy: 69lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	32.8fc	9'-10"
9'	14.6fc	14'-8"
12'	8.2fc	19'-7"
15'	5.3fc	24'-7"
18'	3.6fc	29'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	867	43.3
0-40	1336	66.7
0-60	1780	88.8
0-90	1989	99.3
90-180	14	0.7
0-180	2004	100

Candela Table

Vertical Angles	Candela
0	1181
5	1171
15	1094
25	976
35	779
45	349

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

PHOTOMETRICS

6" Sapphire II Series
3500lm

Type

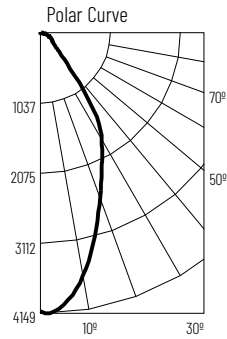
Project

Catalog No.

Notes

Test Information

Test Number: NTR1335
Part Number: NC2-631L3540SWSF
Part Number: 51° Spot
Lumens: 3775lm
Wattage: 43.71W
Efficacy: 86lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.76
Spacing Criteria (90°-270°): 0.76



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	115fc	5'-10"
9'	51fc	8'-8"
12'	28.7fc	11'-7"
15'	18.3fc	14'-6"
18'	12.7fc	17'-5"

Zonal Lumen Summary

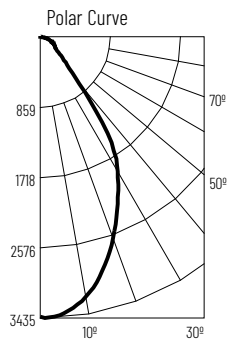
Zone	Lumens	% Luminaire
0-30	2200	58.3
0-40	2960	78.4
0-60	3450	91.4
0-90	3732	98.9
90-180	43	1.1
0-180	3775	100

Candela Table

Vertical Angles	Candela
0	4128
5	4010
15	3069
25	2125
35	1262
45	366

Test Information

Test Number: NTR1335
Part Number: NC2-631L3540MWSF
Part Number: 64° Narrow Flood
Lumens: 3844lm
Wattage: 43.49W
Efficacy: 88lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.92
Spacing Criteria (90°-270°): 0.92



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	95fc	7'-6"
9'	42.2fc	11'-4"
12'	23.8fc	15'
15'	15.2fc	18'-10"
18'	10.6fc	22'-6"

Zonal Lumen Summary

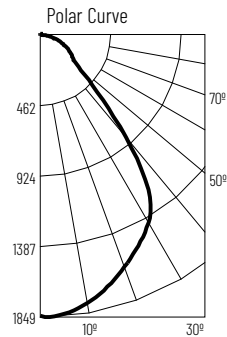
Zone	Lumens	% Luminaire
0-30	2157	56.1
0-40	2988	77.7
0-60	3526	91.7
0-90	3815	99.2
90-180	29	0.8
0-180	3844	100

Candela Table

Vertical Angles	Candela
0	3421
5	3374
15	2947
25	2226
35	1400
45	426

Test Information

Test Number: NTR1321
Part Number: NC2-631L3540FWSF
Part Number: 79° Flood
Lumens: 3127lm
Wattage: 43.27W
Efficacy: 72lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	51.3fc	9'-11"
9'	22.8fc	14'-10"
12'	12.8fc	19'-8"
15'	8.2fc	24'-8"
18'	5.7fc	29'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1357	43.4
0-40	2107	67.4
0-60	2777	88.8
0-90	3104	99.3
90-180	23	0.7
0-180	3127	100

Candela Table

Vertical Angles	Candela
0	1847
5	1832
15	1710
25	1525
35	1240
45	546

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

PHOTOMETRICS

6" Sapphire II Series
4500lm

Type

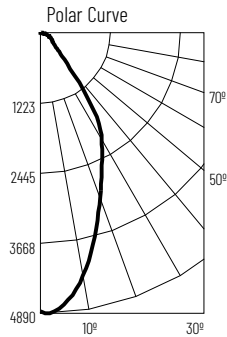
Project

Catalog No.

Notes

Test Information

Test Number: 727461
Part Number: NC2-631L4540SWSF
Part Number: 52° Spot
Lumens: 4585lm
Wattage: 56.2W
Efficacy: 82lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.76
Spacing Criteria (90°-270°): 0.76



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	135fc	5'-11"
9'	60fc	8'-10"
12'	33.8fc	11'-8"
15'	21.6fc	14'-8"
18'	15fc	17'-7"

Zonal Lumen Summary

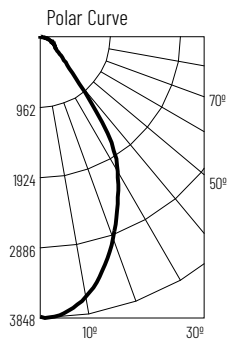
Zone	Lumens	% Luminaire
0-30	2624	57.2
0-40	3579	78.1
0-60	4198	91.6
0-90	4549	99.2
90-180	36	0.8
0-180	4585	100

Candela Table

Vertical Angles	Candela
0	4861
5	4724
15	3654
25	2535
35	1597
45	462

Test Information

Test Number: 727477
Part Number: NC2-631L4540MWSF
Part Number: 64° Narrow Flood
Lumens: 4395lm
Wattage: 55.5W
Efficacy: 79lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.92
Spacing Criteria (90°-270°): 0.92



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	106fc	7'-7"
9'	47.3fc	11'-4"
12'	26.6fc	15'-1"
15'	17fc	18'-11"
18'	11.8fc	22'-8"

Zonal Lumen Summary

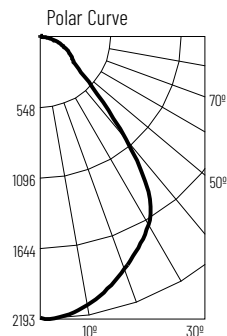
Zone	Lumens	% Luminaire
0-30	2429	55.3
0-40	3387	77.1
0-60	4021	91.5
0-90	4361	99.2
90-180	34.43	0.8
0-180	4395	100

Candela Table

Vertical Angles	Candela
0	3833
5	3769
15	3296
25	2587
35	1596
45	500

Test Information

Test Number: 727489
Part Number: NC2-631L4540FWSF
Part Number: 79° Flood
Lumens: 3687lm
Wattage: 56.5W
Efficacy: 65lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	60.6fc	9'-10"
9'	26.9fc	14'-10"
12'	15.2fc	19'-8"
15'	9.7fc	24'-7"
18'	6.7fc	29'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1602	43.5
0-40	2487	67.4
0-60	3274	88.8
0-90	3659	99.2
90-180	28	0.8
0-180	3687	100

Candela Table

Vertical Angles	Candela
0	2182
5	2164
15	2018
25	1799
35	1454
45	643

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)